KENWOOD

ProTalk DIGITAL

TK-3601D

UHF DIGITAL TRANSCEIVER

USER MANUAL

JVCKENWOOD Corporation

B5A-2559-00/00 (E)

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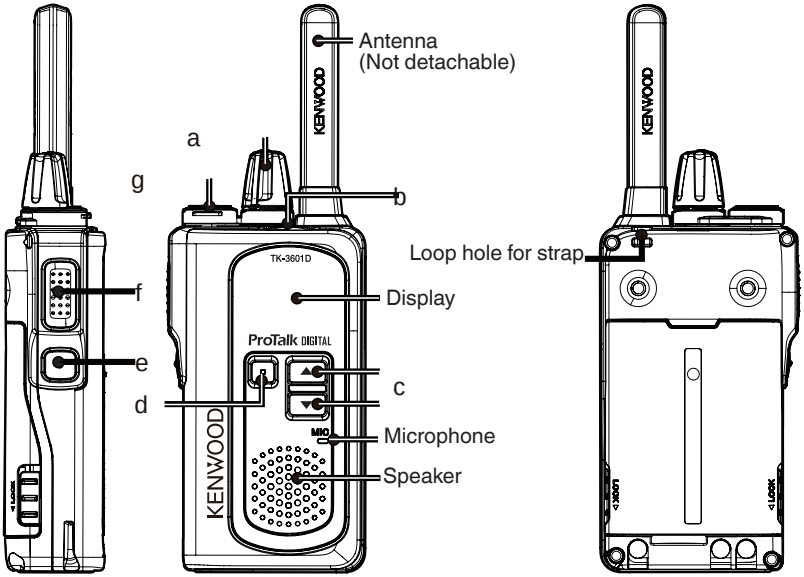
ORIENTATION

BUTTONS AND CONTROLS



Power switch/ Volume control

Turn clockwise to switch the transceiver ON. Rotate to adjust volume level. Turn fully counterclockwise, until click sound, to switch transceiver OFF.

LED indicator

For the LED indicator status {p.9}.

▲ (Up) / ▼ (Down) buttons

Press to change channel, select menu in setting mode or to perform other functions.

Menu button

Press to activate its programmable function.

Default Function		Reference Page
Press	Channel Menu	10
Press and hold	Button Lock	35

· For function descriptions and details on how to change the function of the Menu button. Refer to “BUTTON ASSIGNMENT MODE” {p. 33}.

Side button

Press to activate its programmable function.

Default Function		Reference Page
Press	None (No function)	–
Press and hold	Zone	8

- For function descriptions and details on how to change the function of the Side button. Refer to “BUTTON ASSIGNMENT MODE” {p. 33}.

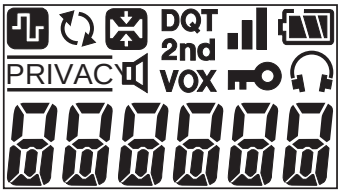
PTT (Push to Talk) switch

Press and hold, then speak into the microphone to transmit.

SP/ MIC jack

Insert the speaker/ microphone or headset plug into this jack.

DISPLAY



Indicator	Description
	Appears while transmitting / receiving. When receiving: Displays the signal strength. : Strong " Ë o ¹ ¿ » Ä Ê : Weak
	Appears the battery power. :High " Ë o ¹ ¿ » Ä Ê ow (Blinks) :Very Low
	Æ Æ » · È É Í ¾ » Ä ¹ ¾ · Ä Ä » Â Ê Ï Æ » ¿ É ¹ Å Ä p ½ Ë È » '
DQT	Æ Æ » · È É Í ¾ » Ä Ê ¾ » ¹ ¾ · Ä Ä » Â ¿ É ¹ Å Ä p ½ Ë È » º
	Appears when the Scan is activated. Blinks when the scan is paused.
	Appears when the Compander is activated.
PRIVACY	Appears when the Scrambler function is activated.
VOX	Appears when the VOX is activated.
	Appears when the Button lock is activated.
	Appears when the Earphone mode is activated.
2nd	Appears when the Second Scan is activated. Blinks when Second Scan function is paused and resting on Second Channel.
	Æ Æ » · È É Í ¾ » Ä Ê ¾ » Å Ä ¿ Ê Å È Å Æ » Ä Å È Ç Ë »

Font Display

Because the display is segmented, letters and numbers are displayed as shown below.

"X" is not used in this transceiver.

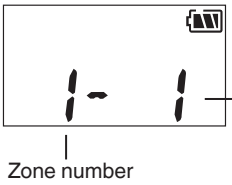
A	B	C	D	E	F	G	H	I	J
K	L	M	N	O	P	Q	R	S	T
U	V	W	Y	Z	-	>			
0	1	2	3	4	5	6	7	8	9

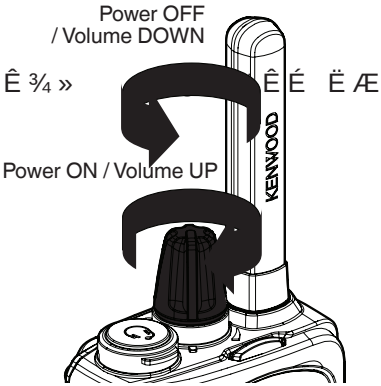
BASIC OPERATION

POWER ON

Switch the transceiver power ON by turning the Power switch/ Volume control knob clockwise.

· ¹ Å Ä p È Ã · Ê ¿ Å Ä Ê Å Ä » É Å Ë Ä º É ‘ Ê ¾ » momentarily, then the current zone and channel number are displayed.





ADJUST THE VOLUME

Set your desired volume level by rotating the Power switch/ Volume control knob.

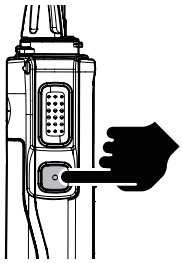
· Clockwise increases the volume and counterclockwise decreases the volume.

Note:

To adjust the volume using background noise as a reference in Analogue mode, use the Ç Ë » Â ¹ ¾ Å n Ë Ä ¹ Ê ¿ Å Ä ”

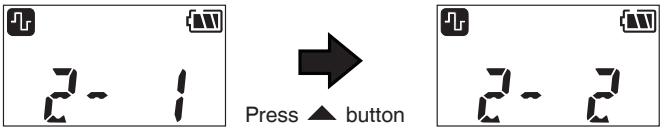
SELECT A ZONE

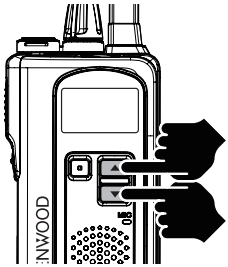
Press and hold the Side button for 1 second to change Zone 1, Zone 2, and Zone 3.



SELECT A CHANNEL

Select a channel by pressing the ▲ or ▼ button.

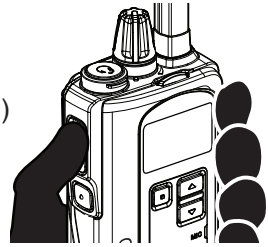




MAKE A CALL

To make a call, press and hold the PTT switch, then speak around the microphone area using your normal speaking voice. Release the PTT switch to receive.

- Hold the microphone approximately 1.5 inches (3 to 4 cm) from your lips.



RECEIVE VOICE

A signal strength icon is appeared on the display and the LED lights in green.

When the other party transmits it, you hear the voice of the other party.

CONTINUE CALLING

It alternately transmits and receives.

After the other party's call is over, press PTT switch and transmit.

POWER OFF

¼ Ê » È Ë É » ‘ Ê Ë È Ä Å n É Ê ¿ ¾ » ¾ Æ Å ¼ » È ’ Ê È · Ä É ¹ » ¿ Ì » È Po Æ e Å Í » È switch/ Volume control knob fully counterclockwise, until a click sounds.

LED INDICATOR STATUS

Indicator Color	Meaning
Red - solid	Transmitting.
Green - solid	Receiving a signal. Ç Ë » Â ¹ ¾ n ¼ Ë Ä ¹ Ê ¿ Å Ä ¿ É · ¹ Ê ¿ Ì · Ê » º ”
Red - blinking	When the battery low power warning is activated.

CHANNEL MENU MODE

¾¿É ÊÈ·ÄÉ¹»¿Ì»È ·ÂÂÅÍÉ ÏÅË ÊÅ È»ÆÈÅ½È·Ã »·¹¾ Å½
frequencies and / QT/DQT (Analogue)/ Common ID (Digital)/ Scrambler (Analogue)/ Compander (Analogue)/ VOX settings.

1 Press the Menu button.

· Displays the setting items of Channel Menu mode.

2 Press the ▲ or ▼ button to select your desired settings.

3 Press the Menu button then press the ▲ or ▼ button to select your desired value for the setting.

4 Press the Menu button to exit the selection.

5 Press the PTT switch or the Side button to exit Channel Menu mode.

Setting item list

Display	Name	Settings	Default	Reference page
9td9t	QT/ DQT *1	OFF/ 01 ~ 38	–	11
id	Common ID *2	1 ~ 255	–	12
SCR	Scrambler *1	OFF/ ON	OFF	15
CmPd	Compander *1	OFF/ ON	OFF	16
Vo	VOX	OFF/ ON	OFF	17

*1: It can be set when Channel type is Analogue.
*2: It can be set when Channel type is Digital.

Note:

You can also change the channel menu setting of all channels at once. Refer to "SETTING TARGET" {p.21}.

QT/ DQT (ANALOGUE)

QT (Quiet Talk) and DQT (Digital Quiet Talk) are functions that reject signals from undesired parties that are using the same channel as you. You will hear audio from the speaker only when you receive a signal that contains a tone or code matching the one setup on the channel you are using. Likewise, when you transmit on a channel setup with QT or DQT, the receiving station must have a matching tone or code in order to hear your signal.

You can select a tone or code for each channel. After changing the QT/ DQT É » Ê Ê ¿ Ä ½ ‘ ¹ Å Ä p È Ã Ê ¾ · Ê Ê ¾ » Å Ê ¾ » È Ã » Ã ¸ » È É ¿ Ä Ï Å Ë È or code.

The table below lists the default channel settings.

Channel Number	Zone 1		
	Frequency (MHz)	Table No.	QT/DQT
1	446.006250	10	94.8 Hz
2	446.093750	8	88.5 Hz
3	446.031250	13	103.5 Hz
4	446.068750	5	79.7 Hz
5	446.043750	17	118.8 Hz
6	446.018750	18	123.0 Hz
7	446.081250	19	127.3 Hz
8	446.056250	7	85.4 Hz
9	446.006250	14	107.2 Hz
10	446.093750	15	110.9 Hz
11	446.031250	16	114.8 Hz
12	446.068750	6	82.5 Hz
13	446.043750	27	D132N
14	446.018750	28	D155N
15	446.056250	29	D134N
16	446.081250	30	D243N

QT/DQT Table

Table No.	QT frequency [Hz] DQT Code	Table No.	QT frequency [Hz] DQT Code	Table No.	QT frequency [Hz] DQT Code	Table No.	QT frequency [Hz] DQT Code
1	67.0	11	97.4	21	136.5	31	D311N
2	71.9	12	100.0	22	141.3	32	D346N
3	74.4	13	103.5	23	146.2	33	D315N
4	77.0	14	107.2	24	151.4	34	D351N
5	79.7	15	110.9	25	156.7	35	D423N
6	82.5	16	114.8	26	162.2	36	D664N
7	85.4	17	118.8	27	D132N	37	D431N
8	88.5	18	123.0	28	D155N	38	D723N
9	91.5	19	127.3	29	D134N		
10	94.8	20	131.8	30	D243N		

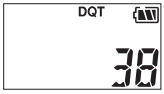
To change the QT/DQT settings:

1 Enter the Channel Menu mode {p.10}.

2 Press the ▲ or ▼ button to select "9t d9t".

3 Press the Menu button then press the ▲ or ▼ button to select your desired QT/DQT table number for the channel.

· The values range from 1 to 26 for QT tones, then proceed to 27 to 38 for DQT codes. When selecting a DQT code, the **DQT** icon appears on the display.



· » Â » ¡ ¹ Ê ¢ Ê Å Ê Ë È Ä Å n ¸ Å Ê ¾ · Ä º ”

4 Press the Menu button to exit the selection, then press the PTT switch or the Side button to exit the Channel Menu mode.

COMMON ID (DIGITAL)

Common ID is a signaling system designed for Digital communications. When a channel is setup with a Common ID, squelch will only open when a call containing · Ã · Ê ¹ ¾ ¿ Ä ½ Å Ã Ã Å Ä ¿Æ · È¹» ¹Â»Â¿ Ì¹»Å°Ä Ê · ¿ Ä ¿ Ä ½ · º ¿ n » È » A made on the same channel you are using, you will not hear the call. This allows you to ignore (not hear) calls from another parties who are using the same channel.

The table below lists the default channel settings.

Channel Number	Zone 2		Zone 3	
	Frequency (MHz)	Common ID	Frequency (MHz)	Common ID
1	446.103125	1	446.003125	1
2	446.109375	2	446.009375	2
3	446.115625	3	446.015625	3
4	446.121875	4	446.021875	4
5	446.128125	5	446.028125	5
6	446.134375	6	446.034375	6
7	446.140625	7	446.040625	7
8	446.146875	8	446.046875	8
9	446.153125	9	446.053125	9
10	446.159375	10	446.059375	10
11	446.165625	11	446.065625	11
12	446.171875	12	446.071875	12
13	446.178125	13	446.078125	13
14	446.184375	14	446.084375	14
15	446.190625	15	446.090625	15
16	446.196875	16	446.096875	16

To change the Common ID settings:

1 Enter the Channel Menu mode {p.10}.

2 Press the ▲ or ▼ button to select "id".

3 Press the Menu button then press the ▲ or ▼ button to select your desired Common ID.

- The values range from 1 to 255.
- If you set Common ID to 255, you can call to all Common ID transceivers.

4 Press the Menu button to exit the selection, then press the PTT switch or the Side button to exit the Channel Menu mode.

PRIVACY TALK (SCRAMBLER)

When the Channel Type is Analogue, whereas the QT and DQT functions allow you to ignore unwanted calls, Privacy Talk allows you to hold a conversation in complete privacy. When this function is activated, any other party that is listening to your channel will be unable to understand your conversation.

1 Enter the Channel Menu mode {p.10}.

2 Press the ▲ or ▼ button to select "SCR".

3 Press the Menu button then press the ▲ or ▼ button to select your desired value.

oFF	OFF	The Scrambler function is deactivated.
on	ON	The Scrambler function is activated.

· The PRIVACY icon appears on the display when "ON" is selected.

4 Press the Menu button to exit the selection, then press the PTT switch or the Side button to exit the Channel Menu mode.